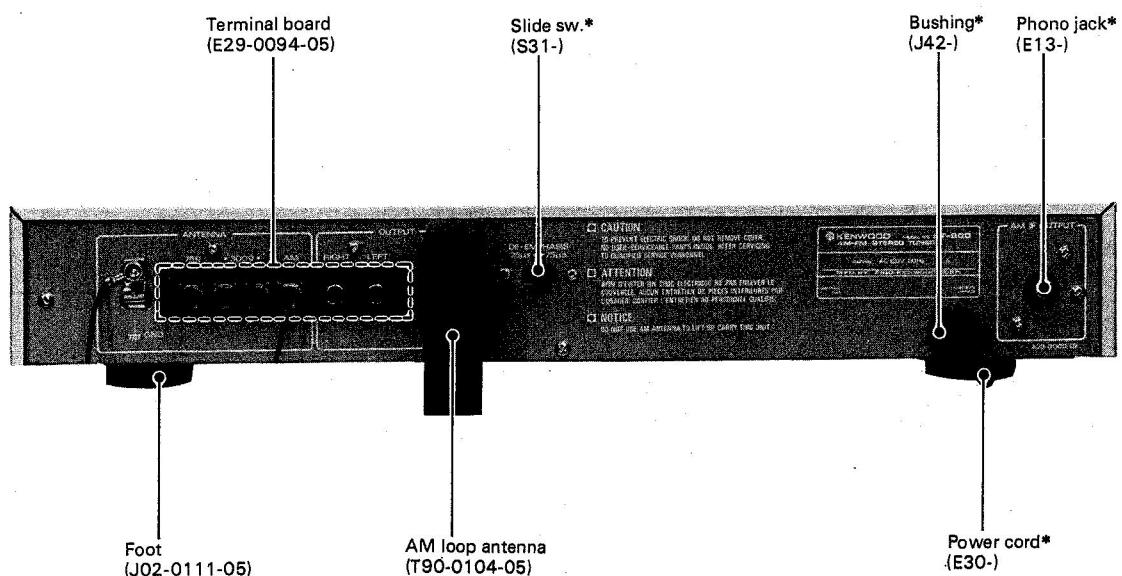
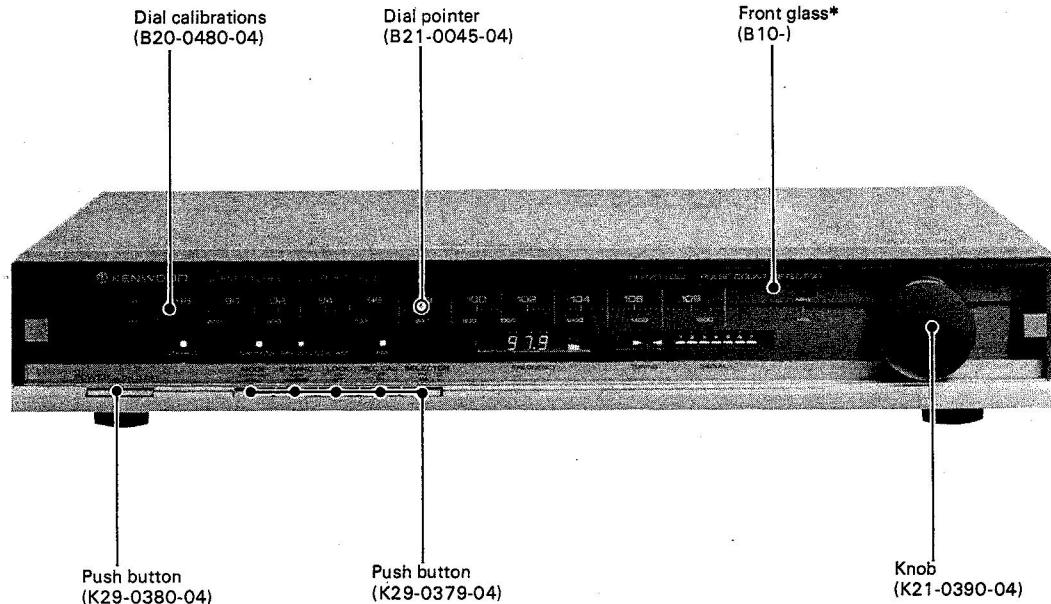


# SERVICE MANUAL

**KENWOOD**

**KT-900**

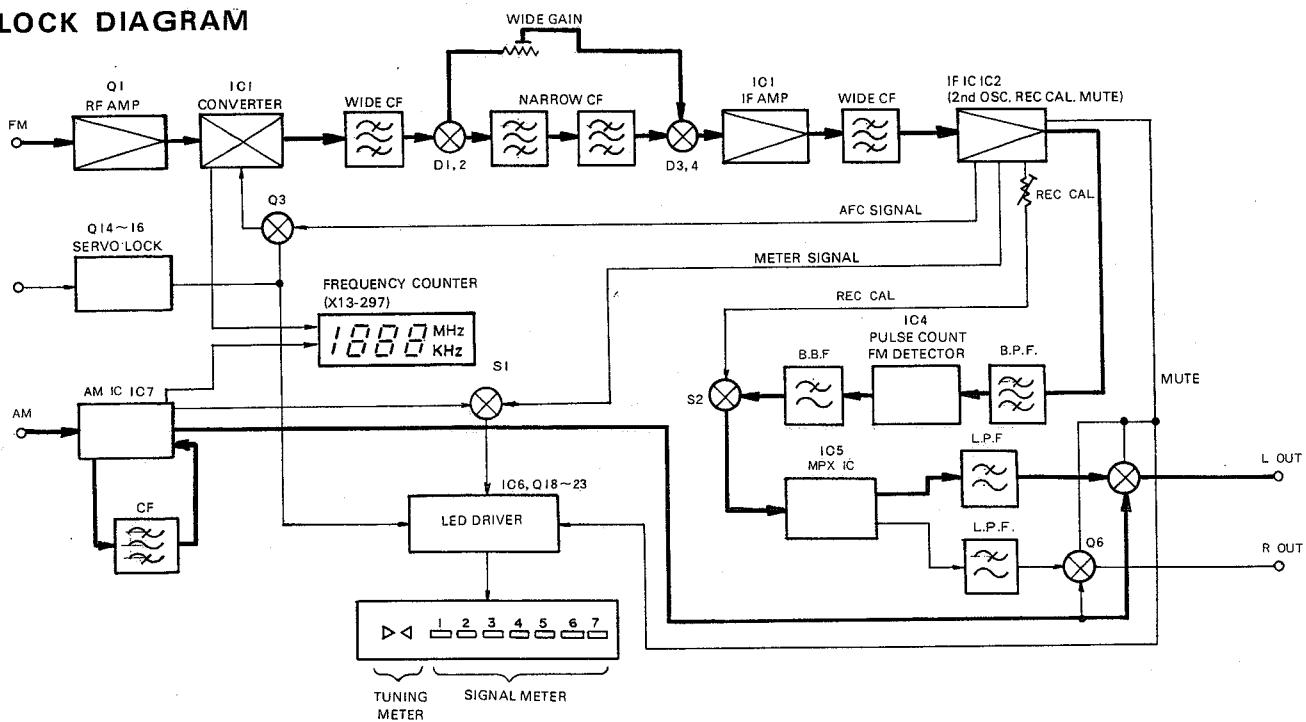
## AM-FM STEREO TUNER



\* Refer to Parts List (P10)

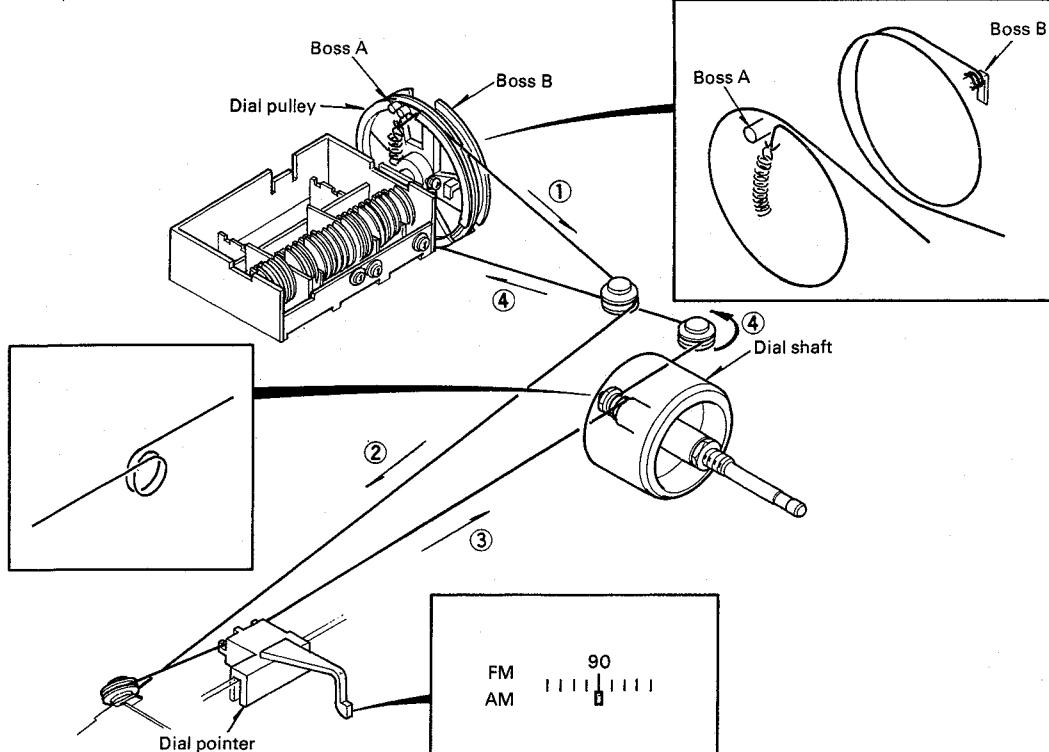
## BLOCK DIAGRAM/DIAL CORD STRINGING

## BLOCK DIAGRAM



## DIAL CORD STRINGING

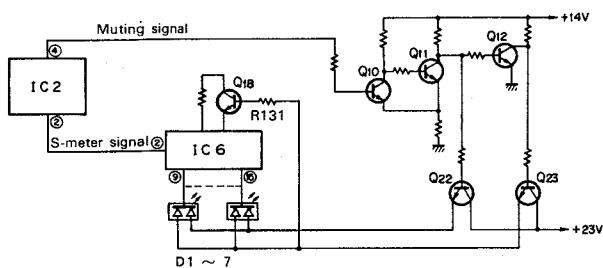
1. Tie the end of the dial cord to the spring, hook the end of the spring to the boss A.
2. Set the dial pulley as illustrated.
3. Dress the dial cord in the direction 1 through 3.
4. Wind the dial cord two turns around the dial shaft starting from its upper side.
5. Dress the dial cord in the direction 4 to 5.
6. Wind the dial cord two turns around the dial pulley starting from its lower side.
7. Tie the end of the dial cord to the boss B.
8. Remove the dial spring from the boss A.
9. Receive a 90 MHz signal, and then mount the dial pointer at the 90 MHz position of the dial calibrations.



## CIRCUIT DESCRIPTION

### 1. LED Signal Strength Meter (S-meter) and Tuning Indicator (T-indicator)

1-1 The S-meter signal output from IC2 is input to LED driver IC6, which drives 7 LEDs. IC6 has a hysteresis characteristic so that fast variation of the antenna input level will not result in flickering of the S-meter LEDs. Each LED chip used in the S-meter includes red and green LEDs, the cathodes of which are connected. When the antenna input level is low, the muting circuit turns Q22 ON to light the red LEDs. When the antenna input level becomes high enough, that is, when a broadcast is correctly tuned, the muting circuit turns Q23 ON to light the green LEDs. In other words, when the muting level is "H", the red LEDs are lit and when it is "L", the green LEDs are lit. When Q23 is ON, Q18 is also ON through R131, increasing the IC6 current and causing the green LEDs to glow more intensely. When replacing Q22 or Q23, a 500 mA I<sub>c</sub> is required to drive the seven LEDs.



1-2 The tuning indicator consists of two triangular LEDs situated side-by-side ( $\triangleright$   $\triangleleft$ ) and is located to the left of the S-meter. When a broadcast is tuned from the left (i.e., from lower frequencies), AFC voltage (negative with respect to the reference voltage at pin 11 of IC2) appears at pin 3 of IC2. This voltage is inverted by IC3 (1/2) and applied to Q19 to light the left LED ( $\triangleright$ ). When the broadcast is correctly tuned, the AFC voltage becomes equal to the reference voltage, so that the output of the inverting amplifier (IC3 (1/2)) is equal to that of the non-inverting amplifier (IC3 (2/2)). Both Q19 and Q20 are then equally driven and both LEDs glow with the same intensity.

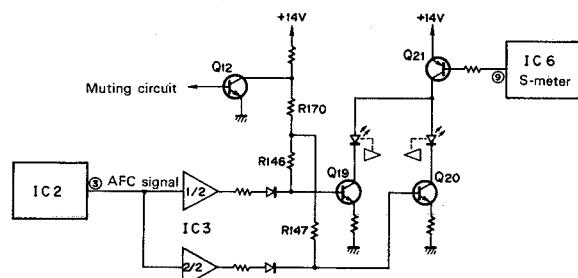
Further, when the receiving frequency is varied toward higher frequencies, the AFC voltage becomes positive

Further, when the receiving frequency is varied toward higher frequencies, the AFC voltage becomes positive with respect to the reference voltage and the input of the non-inverting amplifier increases. Then, Q20 is driven and only the right LED ( $\triangleleft$ ) is lit.

When the antenna input level is too low (when no S-meter LED is lit), Q21 is OFF and the T-indicator cannot operate.

When the servo lock circuit is operating and the green LEDs are lit, the collector level of Q12 is "H" and this level is applied to Q19 and Q20 through R170, R146 and R147.

Thus, both Q19 and Q20 are ON and both T-indicator LEDs glow intensely.

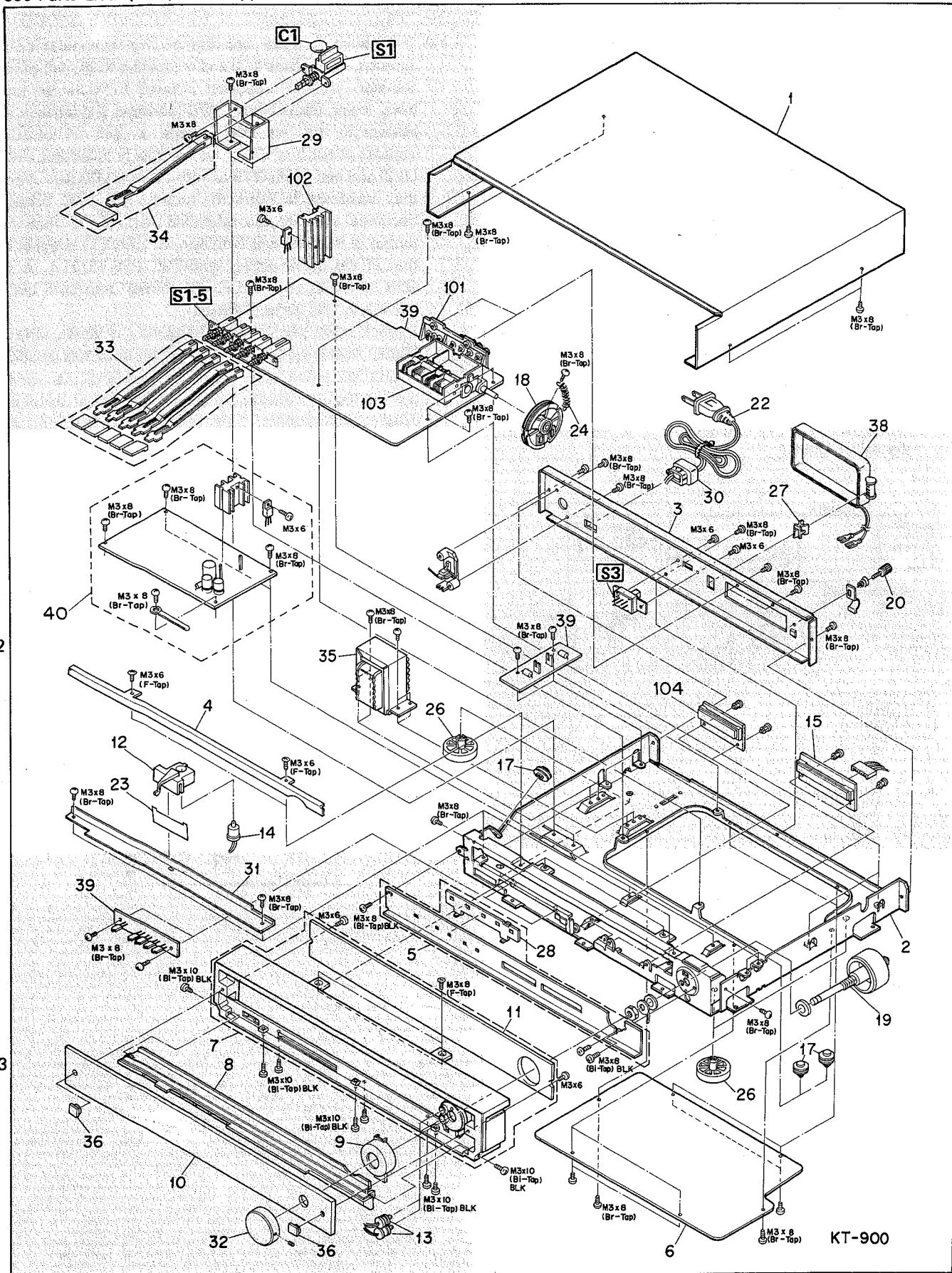


See Parts List. (P10)

## EXPLODED VIEW

A

B



M3 x 6 : N30-3006-46  
 M3 x 8 (Br-Tap) : N87-3008-46

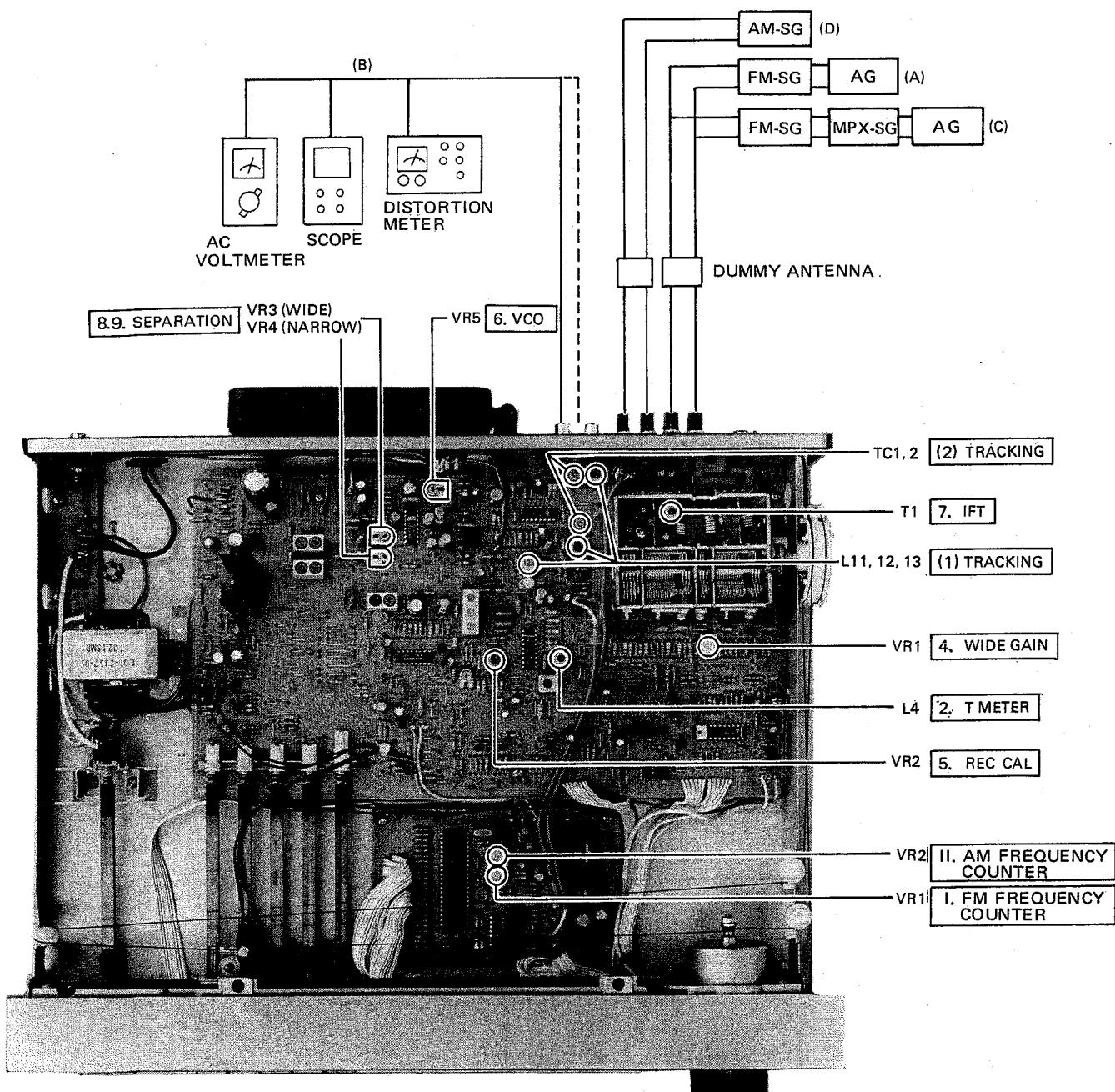
M3 x 8 : N30-3008-46  
 M3 x 8 (Bi-Tap) BLK : N89-3008-45

M3 x 6 (F-Tap) : N88-3006-46  
 M3 x 10 (Bi-Tap) BLK : N89-3010-45

## ADJUSTMENT/REGLAGES/ABGLEICH

## TEST INSTRUMENT

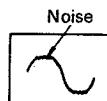
| TEST INSTRUMENT              | APPAREILAGE                         | PRÜFINSTRUMENTE              |
|------------------------------|-------------------------------------|------------------------------|
| Oscilloscope .....           | Oscilloscope .....                  | Oszilloskop .....            |
| AM signal generator .....    | Générateur MA .....                 | MW-Signalgenerator .....     |
| FM signal generator .....    | Générateur MF .....                 | UKW-Signalgenerator .....    |
| Audio generator .....        | Générateur à audio fréquences ..... | NF-Signalgenerator .....     |
| AC voltmeter .....           | Voltmètre CA .....                  | Wechselspannungsmesser       |
| FM multiplex generator ..... | Générateur multiplex stéréo .....   | UKW-Multiplexgenerator ..... |
| Frequency counter .....      | Fréquencemètre .....                | Frequenzzähler               |
| DC voltmeter .....           | Voltmètre CC .....                  | Gleichspannungsmesser        |
| Distortion meter .....       | Distorsiomètre .....                | Klirrfaktormesser            |
| Dummy antenna .....          | Antenna fictive .....               | AntennenNachbildung          |



## ADJUSTMENT

| NO.  | ITEM                | SYSTEM CONNECTIONS  | TEST EQUIPMENT SETTING  | TUNER (RECEIVER) SETTING                | ALIGNMENT POINTS  | ALIGN FOR  | FIG. NO. |
|--|---------------------|---|---|---|-------------------|--|----------|
| <b>FM SECTION</b>                            |                     | Set the MODE switch to AUTO/MUT, IF BAND switch WIDE, LOCK switch ON and REC CAL switch OFF unless otherwise specified. |   |   |                   |  |          |
| 1  | T METER             | (A)/(B)   | 95 MHz<br>1 kHz, 75 kHz (Dev)   | 95 MHz<br>MODE: MONO<br>LOCK: OFF       | —                 | *1   |          |
| 2  | T METER             | (A)/(B)   | 95 MHz<br>1 kHz, 75 kHz (Dev)<br>60 dB (ANT input)  | 95 MHz<br>LOCK: OFF                     | L4                | Both LEDs glow with the same intensity.  |          |
| 3  | WIDE GAIN           | (A)/(B)   | 95 MHz<br>0 (Dev)   | 95 MHz<br>IF BAND: NARROW<br>MODE: MONO | —                 | Set the FM-SG output level so that S-meter indicates 4.  |          |
| 4  | WIDE GAIN           | (A)/(B)   | ditto   | 95 MHz<br>IF BAND: WIDE<br>MODE: MONO   | VR1               | S-meter indicates 4.   |          |
| 5  | REC CAL             | (A)/(B)   | —   | REC CAL: ON                             | VR2               | 0.38V  |          |
| 6  | VCO                 | (A)/Connect a frequency counter to the junction of R56 and VR5 via an AC voltmeter.                                     | 95 MHz<br>0 dev<br>60 dB (ANT input)  | 95 MHz                                  | VR5               | 76 kHz   |          |
| 7  | IFT                 | (C)/(B)   | 95 MHz<br>1 kHz $\pm$ 68.25 kHz dev<br>Selector: L or R<br>Pilot: $\pm$ 6.75 kHz dev<br>60 dB (ANT input) | 95 MHz                                  | T1<br>(Front end) | Minimum distortion   |          |
| 8  | SEPARATION (WIDE)   | (C)/(B)   | 95 MHz<br>1 kHz $\pm$ 68.25 kHz dev<br>Selector: L or R<br>Pilot: $\pm$ 6.75 kHz dev<br>60 dB (ANT input) | 95 MHz                                  | VR3               | Minimum crosstalk. A compromise adjustment may be required if left-to-right and right-to-left separations are unequal. |          |
| 9  | SEPARATION (NARROW) | (C)/(B)   | ditto   | 95 MHz<br>IF BAND: NARROW               | VR4               | ditto  |          |
| <b>AM SECTION</b>                            |                     | Keep the AM loop antenna installed.   |   |   |                   |  |          |
| (1)  | RF ALIGNMENT (AM)   | (D)/(B)   | 600 kHz<br>400 Hz, 30% mod  | AM<br>600 kHz                           | L11, 12, 13       | Maximum amplitude and symmetry of the oscilloscope display.  |          |
| (2)  | RF ALIGNMENT (AM)   | (D)/(B)   | 1400 kHz<br>400 Hz, 30% mod   | AM<br>1400 kHz                          | TC1, 2            | Maximum amplitude and symmetry of the oscilloscope display   |          |
| Repeat alignments (1) and (2) several times. |                     |   |   |   |                   |  |          |
| <b>FREQUENCY COUNTER</b>                     |                     |   |   |   |                   |  |          |
| I  | FM                  | (A)   | 89.10 MHz<br>0 Dev<br>20 dB (ANT input)   | 89.1 MHz<br>MODE: MONO                  | VR1               | Fluorescent indicator  |          |
| II   | AM                  | (D)   | 1440.0 kHz<br>400 Hz, 30% mod<br>30 dB (ANT input)  | AM<br>1440 kHz                          | VR2               | ditto  |          |

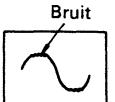
\*1. Adjust the tuning knob so that the same amount of noise is observed at the top and bottom of the output waveform with a weak signal.



## REGLAGES

| N°   | ITEM                                | RACCORDE-MENTS DU SYSTEME   | REGLAGE DE L'APPAREILLAGE  | REGLAGE DU TUNER (AMPLI-TUNER)       | POINTS DE L'ALIGNEMENT | ALIGNER POUR   | FIG. N° |
|--|-------------------------------------|---|--|--------------------------------------|------------------------|--|---------|
| <b>SECTION MF</b> Placer le MODE dans la position AUTO/MUT, IF BAND sur WIDE, LOCK sur ON et REC CAL sur OFF sauf indiqué spécial le ment. |                                     |   |  |                                      |                        |  |         |
| 1  | INDICATEUR A ZERO CENTRAL           | (A)/(B)   | 95 MHz 1 kHz (Mod)<br>75 kHz (Dev)   | 95 MHz MODE: MONO<br>LOCK: OFF       | —                      | *1   |         |
| 2  | INDICATEUR A ZERO CENTRAL           | (A)/(B)   | 95 MHz 1 kHz (Mod)<br>75 kHz (Dev)<br>60 dB (Entrée ANT)   | 95 MHz<br>LOCK: OFF                  | L4                     | Les deux LEDs s'allument avec la même intensité.   |         |
| 3  | GRAND GAIN                          | (A)/(B)   | 95 MHz 0 (Dev)   | 95 MHz IF BAND: NARROW<br>MODE: MONO | —                      | Régler le niveau de sortie du générateur MF de façon que l'indicateur de champ marque 4.   |         |
| 4  | GRAND GAIN                          | (A)/(B)   | idem   | 95 MHz IF BAND: WIDE<br>MODE: MONO   | VR1                    | L'indicateur de champ amène à 4.   |         |
| 5  | REC CAL                             | (A)/(B)   | —  | REC CAL: ON                          | VR2                    | 0.38V  |         |
| 6  | OSCILLATEUR CONTROLE PAR LA TENSION | (A)/Connecter un compteur de fréquence à la jonction de R56 et VR5 par un voltmètre CA. | 95 MHz 0 dév<br>60 dB (Entrée ANT)   | 95 MHz                               | VR5                    | 76 kHz   |         |
| 7  | IFT                                 | (C)/(B)   | 95 MHz 1 kHz ±68,25 kHz dév<br>SELECTION: L ou R<br>Signal pilote: ±6,75 kHz dév<br>60 dB (Entrée ANT) | 95 MHz                               | T1<br>(Tête H.T.)      | Distorsion minimale  |         |
| 8  | SEPARATION (WIDE)                   | (C)/(B)   | 95 MHz 1 kHz ±68,25 kHz dév<br>SELECTION: L ou R<br>Signal pilote: ±6,75 kHz dév<br>60 dB (Entrée ANT) | 95 MHz                               | VR3                    | Diaphonie minimale.<br>Un compromis de réglage peut être nécessaire si les séparations de gauche à droite et de droite à gauche sont inégales. |         |
| 9  | SEPARATION (NARROW)                 | (C)/(B)   | idem   | 95 MHz IF BAND: NARROW               | VR4                    | idem   |         |
| <b>SECTION MA</b> Laisser l'antenne boucle MA installée.   |                                     |   |  |                                      |                        |  |         |
| (1)  | ALIGNEMENT H.T. (MA)                | (D)/(B)   | 600 kHz 400 Hz, 30% mod  | AM 600 kHz                           | L11, 12, 13            | Amplitude et symétrie maximale de l'affichage de l'oscilloscope.   |         |
| (2)  | ALIGNEMENT H.T. (MA)                | (D)/(B)   | 1400 kHz 400 Hz, 30% mod   | AM 1400 kHz                          | TC1, 2                 | Amplitude et symétrie maximale de l'affichage de l'oscilloscope.   |         |
| Repéter les alignements (1) et (2) plusieurs fois.   |                                     |   |  |                                      |                        |  |         |
| <b>FREQUENCEMETRE</b>  |                                     |   |  |                                      |                        |  |         |
| I  | MF                                  | (A)   | 89,10 MHz 0 Dév<br>20 dB (Entrée ANT)  | 89,1 MHz MODE: MONO                  | VR1                    | Indicateur à fréquence   |         |
| II   | MA                                  | (D)   | 1440,0 kHz 400 Hz, 30% mod<br>30 dB (Entrée ANT)   | AM 1440 kHz                          | VR2                    | idem   |         |

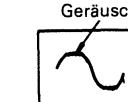
\*1. Régler le bouton d'accord de sorte que la même quantité de bruit puisse être observée au sommet et au bas de la forme d'onde de sortie sous des conditions d'alimentation de signal faible.



## ABGLEICH

| NR.  | GEGENSTAND                      | SYSTEM-ANSCHLÜSSE  | PRÜFEIN-RICHTUNG-EINSTELLUNG  | TUNER (RECEIVER)-EINSTELLUNG         | ABGLEICH-PUNKTE   | ABGLEICHEN FÜR  | ABB. NR. |
|--|---------------------------------|--|---|--------------------------------------|-------------------|---|----------|
| <b>UKW-ABTEILUNG</b> Außer wenn anders angegeben, MODE-Schalter auf AUTO/MUT, IF BAND-Schalter auf WIDE, LOCK-Schalter auf ON und REC CAL-Schalter auf OFF einstellen. |                                 |  |   |                                      |                   |   |          |
| 1  | KANALMITTEN-ANZEIGER            | (A)/(B)  | 95 MHz 1 kHz, 75 kHz Hub  | 95 MHz MODE: MONO<br>LOCK: OFF       | —                 | *1  |          |
| 2  | KANALMITTEN-ANZEIGER            | (A)/(B)  | 95 MHz 1 kHz, 75 kHz Hub<br>60 dB (ANT: Eingang)  | 95 MHz<br>LOCK: OFF                  | L4                | Beide LEDs leuchten mit derselben Stärke auf.   |          |
| 3  | FELDSTÄRKE-INSTRUMENT (WEIT)    | (A)/(B)  | 95 MHz 0 (Hub)  | 95 MHz IF BAND: NARROW<br>MODE: MONO | —                 | Den Ausgangspegel des UKW-Signalgenerator so einstellen, daß das Feldstärkeinstrument den Wert 4 anzeigt.                                 |          |
| 4  | FELDSTÄRKE-INSTRUMENT (WEIT)    | (A)/(B)  | dito  | 95 MHz IF BAND: WIDE<br>MODE: MONO   | VR1               | Wert 4 anzeigt.   |          |
| 5  | REC CAL                         | (A)/(B)  | —   | REC CAL: ON                          | VR2               | 0.38V   |          |
| 6  | SPANNUNGS-GEREGELTER OSZILLATOR | (A)/Einen Frequenzmesser zur Verbindung von R56 und VR5 über einem Wechselspannungsmesser anschließen. | 95 MHz 0 Hub<br>60 dB (ANT-Eingang)   | 95MHz                                | VR5               | 76 kHz  |          |
| 7  | IFT                             | (C)/(B)  | 95 MHz 1 kHz ±68,25 kHz Hub<br>Wähler: L oder R<br>Pilotton: ±6,75 kHz Hub<br>60 dB (ANT-Eingang) | 95 MHz                               | T1<br>(Frontende) | Minimaler Klirrfaktor   |          |
| 8  | STEREO KANAL TRENNUNG (WIDE)    | (C)/(B)  | 95 MHz 1 kHz ±68,25 kHz Hub<br>Wähler: L oder R<br>Pilotton: ±6,75 kHz Hub<br>60 dB (ANT-Eingang) | 95 MHz                               | VR3               | Minimales Übersprechen<br>Eine Ausgleichsregelung kann notwendig sein, falls links-zu-rechts und rechts-zu-links Trennungen ungleich sind |          |
| 9  | STEREO KANAL TRENNUNG (NARROW)  | (C)/(B)  | dito  | 95 MHz IF BAND: NARROW               | VR4               | dito  |          |
| <b>MW-ABTEILUNG</b> Die MW-Rahmenantenne angebracht lassen.  |                                 |  |   |                                      |                   |   |          |
| (1)  | HF-ABGLEICH (MW)                | (D)/(B)  | 600 kHz 400 Hz, 30% mod   | AM automatische Abstimmung 600 kHz   | L11, 12, 13       | Maximale Amplitude und Symmetrie des Oszilloskopbildes.   |          |
| (2)  | HF-ABGLEICH (MW)                | (D)/(B)  | 1400 kHz 400 Hz, 30% mod  | AM automatische Abstimmung 1400 kHz  | TC1, 2            | Maximale Amplitude und Symmetrie des Oszilloskopbildes.   |          |
| Abstimmungen (1) und (2) mehrere Male wiederholen.   |                                 |  |   |                                      |                   |   |          |
| <b>FREQUENZZÄHLER</b>  |                                 |  |   |                                      |                   |   |          |
| I  | UKW                             | (A)  | 89,10 MHz 0 Hub<br>20 dB ANT-Eingang  | FM-MONO 89,1 MHz                     | VR1               | Frequenz-indikator  |          |
| II   | MW                              | (D)  | 1440 kHz 400 Hz, 30% Mod<br>30 dB ANT-Eingang   | AM 1440,0 kHz                        | VR2               | dito  |          |

\*1. Den Abstimmknopf so einstellen, daß an der oberen und unteren Grenze der Ausgangswellenform bei schwachem Signal dasselbe Geräusch auftritt.

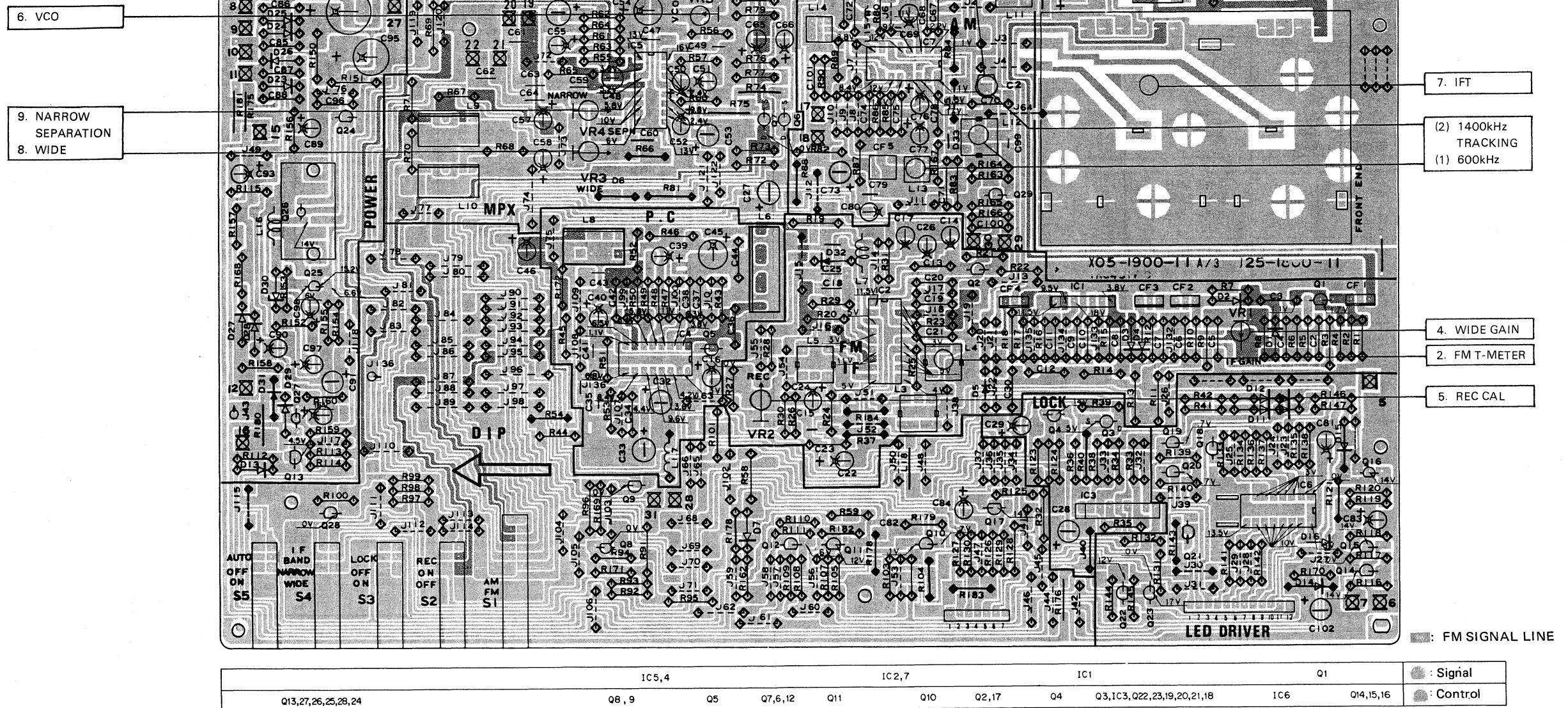
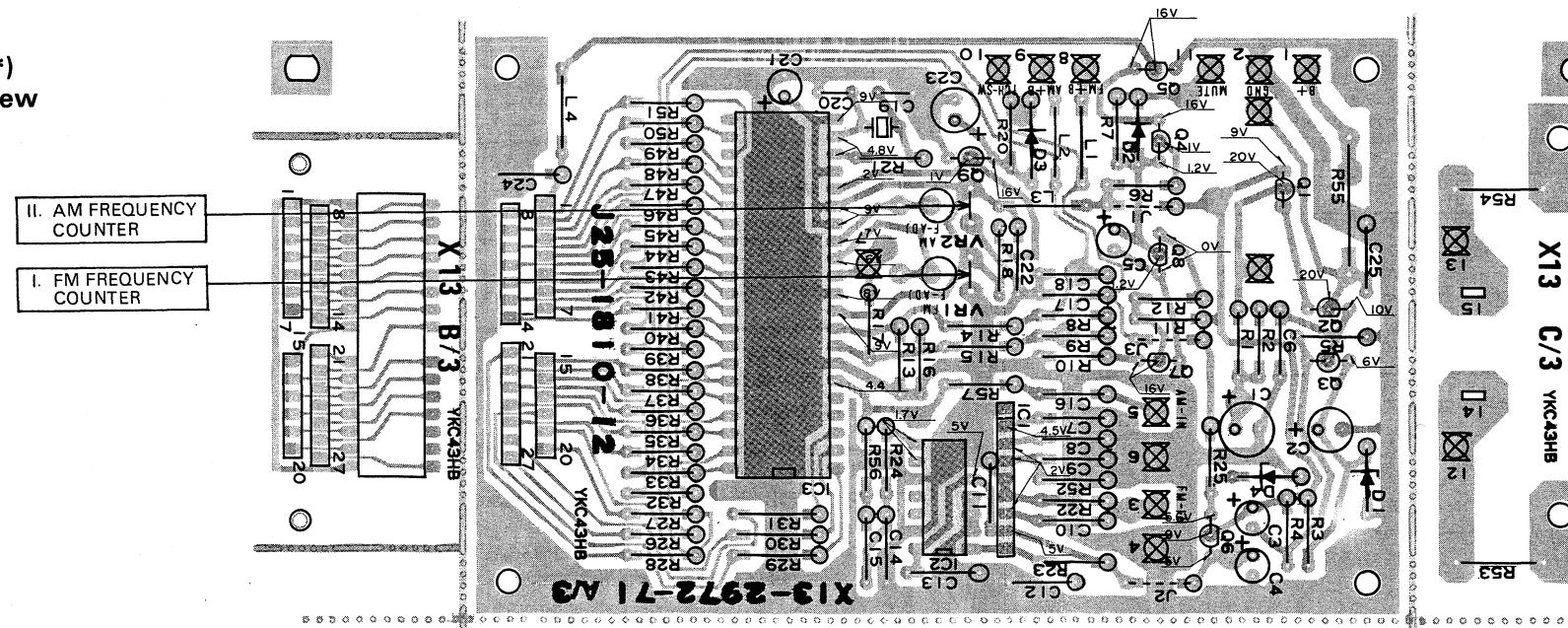


## BEMERKUNG

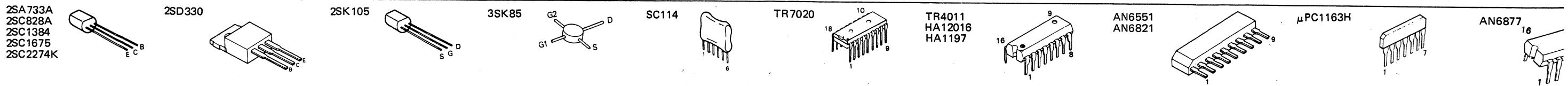
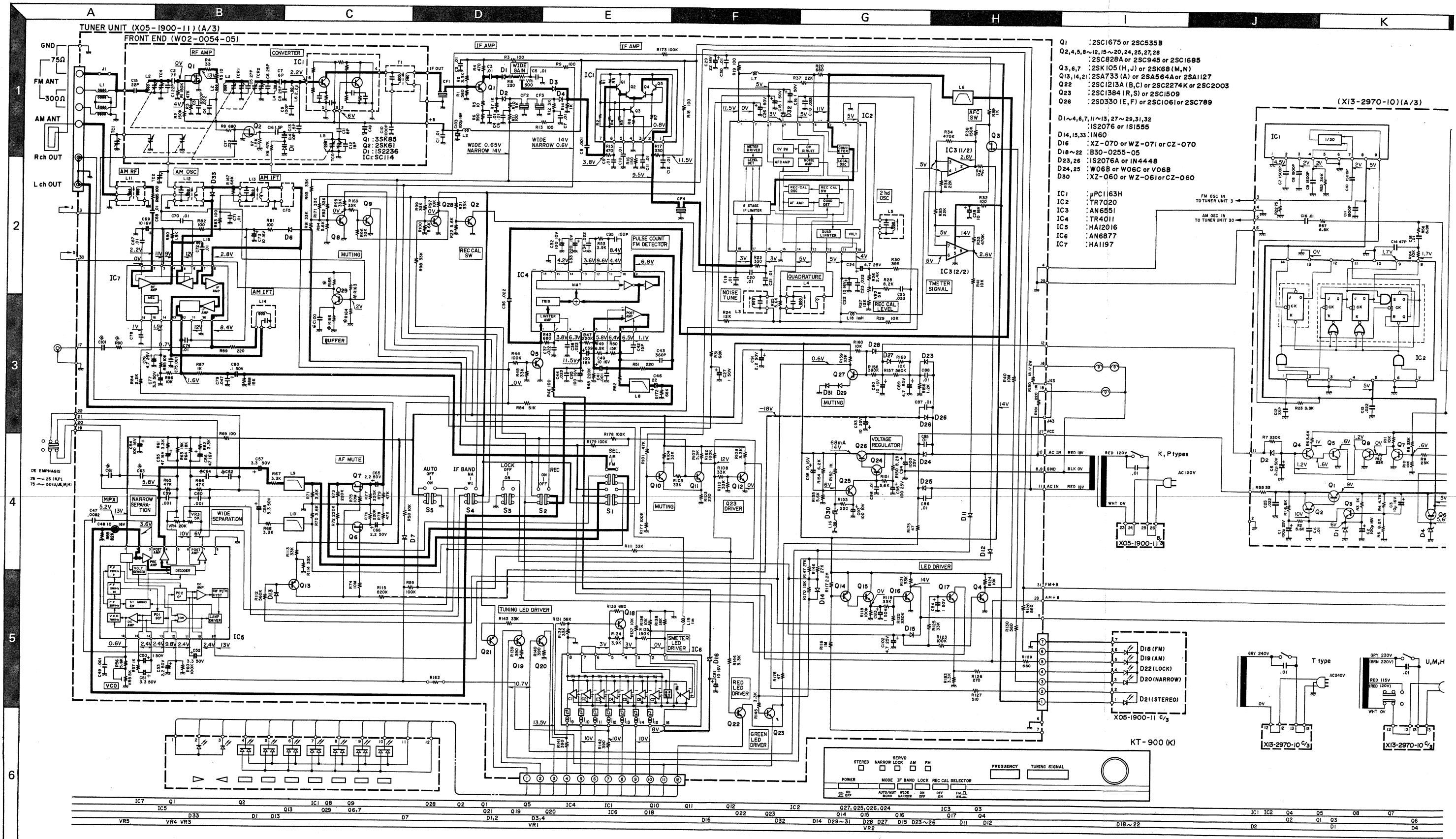
Nach der Einstellung, sich vergewissern, daß UKW Empfang unter 87,5 MHz oder über 108,5 MHz nicht möglich ist.  
Falls die UKW Station in diesem Bereich empfangen werden kann, wie folgt nachregeln.

1. UKW-Meßsender auf 108 MHz einstellen, 1 kHz (Mod) und 75 kHz (Dev) und an die antennenbuchse anschließen.

2. Den Astimmanzeiger des Tuners auf 108 MHz einstellen.
3. TCO so einstellen, daß der Abstimmzähler den Mittelpunkt anzeigt.
4. TCR1, TCR2 und TC4 so einstellen, daß der Signalzähler den Höchstwert anzeigt.

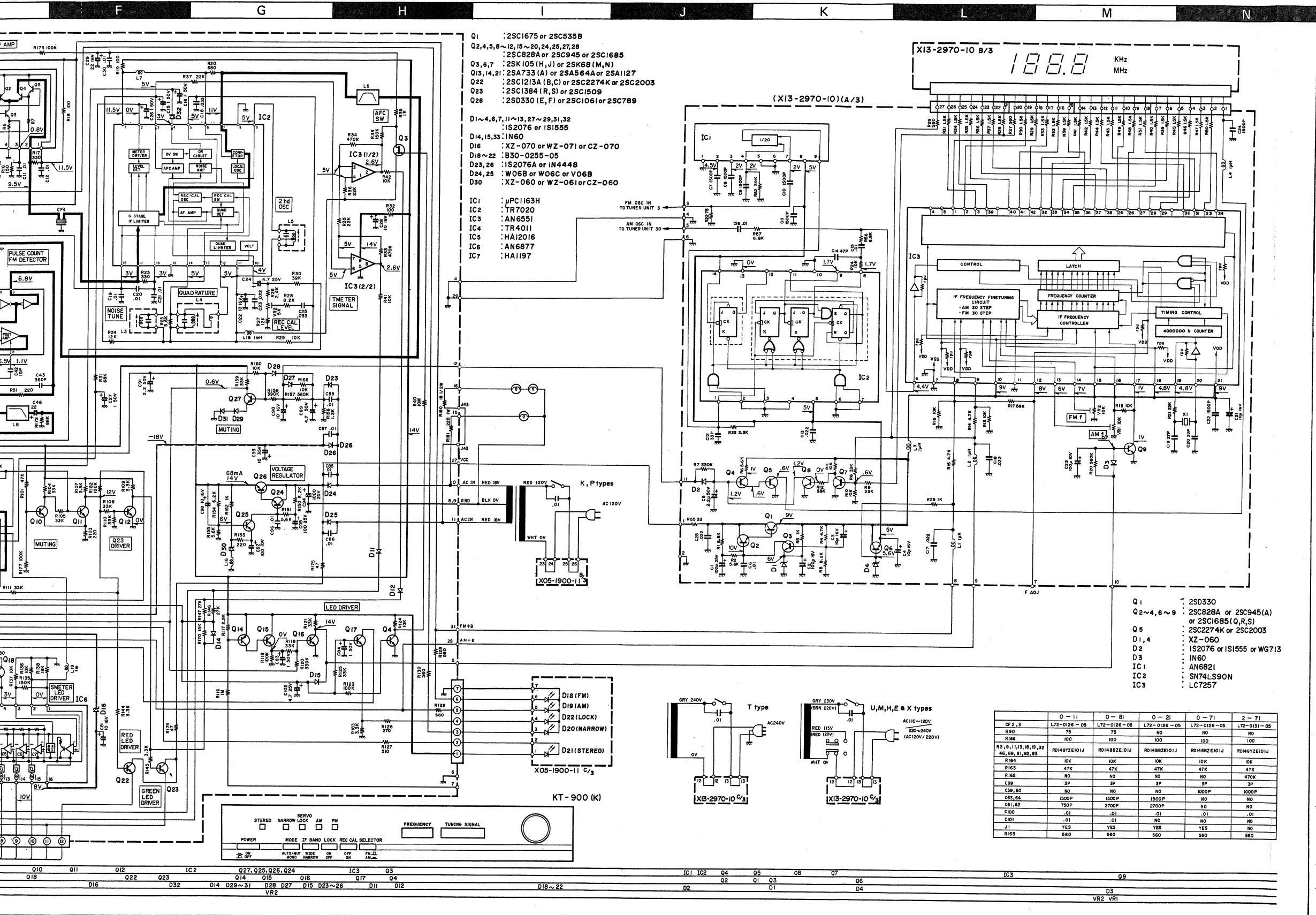
TUNER (X05-190\*.\*\*)  
Component side viewSUB (X13-297\*.\*\*)  
Component side view

Refer to the schematic diagram for the values of resistors and capacitors.



# AM-FM STEREO TUNER

# KT-900



## SPECIFICATIONS

### FM TUNER SECTION

|                            |                        |
|----------------------------|------------------------|
| Usable sensitivity         | 10.8 dBf (1.9 $\mu$ V) |
| 50 dB Quieting Sensitivity |                        |
| Mono                       | 16.4 dBf (3.6 $\mu$ V) |

|        |                       |
|--------|-----------------------|
| Stereo | 37.3 dBf (40 $\mu$ V) |
|--------|-----------------------|

### Signal to Noise Ratio

|        |       |
|--------|-------|
| Mono   | 88 dB |
| Stereo | 83 dB |

|                           |       |
|---------------------------|-------|
| Total Harmonic Distortion |       |
| Mono                      | 0.03% |
| 100 Hz                    | 0.03% |
| 1,000 Hz                  | 0.05% |
| 6,000 Hz                  | 0.4%  |
| 15,000 Hz                 | 0.05% |
| 50 ~ 10,000 Hz            | 0.09% |
| Stereo                    | 0.05% |
| 100 Hz                    | 0.3%  |
| 1,000 Hz                  | 0.4%  |
| 6,000 Hz                  | 0.7%  |
| 15,000 Hz                 | 0.5%  |
| 50 ~ 10,000 Hz            | 0.18% |

|                               |       |
|-------------------------------|-------|
| Capture Ratio                 | 0.4%  |
| Alternate Channel Selectivity | 45 dB |

|        |                 |
|--------|-----------------|
| Stereo | 65 dB (300 kHz) |
|--------|-----------------|

|                |       |
|----------------|-------|
| 1,000 Hz       | 55 dB |
| 50 ~ 10,000 Hz | 45 dB |

|           |       |
|-----------|-------|
| 15,000 Hz | 37 dB |
|-----------|-------|

|                    |                  |
|--------------------|------------------|
| Frequency Response |                  |
| 30 Hz to 15,000 Hz | +0.2 dB, -0.8 dB |

|                         |        |
|-------------------------|--------|
| Spurious Response Ratio | 120 dB |
|-------------------------|--------|

|                      |       |
|----------------------|-------|
| Image Response Ratio | 90 dB |
|----------------------|-------|

|                   |        |
|-------------------|--------|
| IF Response Ratio | 100 dB |
|-------------------|--------|

|                      |       |
|----------------------|-------|
| AM Suppression Ratio | 70 dB |
|----------------------|-------|

|                           |       |
|---------------------------|-------|
| Sub Carrier Product Ratio | 68 dB |
|---------------------------|-------|

|                   |  |
|-------------------|--|
| Antenna Impedance | 300 ohms balanced and 75 ohms unbalanced |
|-------------------|--|

|                    |                   |
|--------------------|-------------------|
| FM Frequency Range | 88 MHz to 108 MHz |
|--------------------|-------------------|

|              |                      |
|--------------|----------------------|
| Output Level | (1,000 Hz 100% Mod.) |
|--------------|----------------------|

|  |                 |
|--|-----------------|
|  | 0.75V/1.8 kohms |
|--|-----------------|

### AM TUNER SECTION

|                    |            |
|--------------------|------------|
| Usable Sensitivity | 13 $\mu$ V |
|--------------------|------------|

|                       |       |
|-----------------------|-------|
| Signal to Noise Ratio | 52 dB |
|-----------------------|-------|

|                           |      |
|---------------------------|------|
| Total Harmonic Distortion | 0.4% |
|---------------------------|------|

|                 |       |
|-----------------|-------|
| Image Rejection | 45 dB |
|-----------------|-------|

|             |       |
|-------------|-------|
| Selectivity | 58 dB |
|-------------|-------|

|              |                   |
|--------------|-------------------|
| Output Level | (400 Hz 30% Mod.) |
|--------------|-------------------|

|  |               |
|--|---------------|
|  | 0.15V/2 kohms |
|--|---------------|

### GENERAL

|                    |  |
|--------------------|--|
| Power Requirements | 60 Hz 120V (U.S.A. and Canada Model) or 50/60 Hz 110-120/220-240V switchable |
|--------------------|--|

|                   |                               |
|-------------------|-------------------------------|
| Power Consumption | 25W (IEC), 0.25A (UL and CSA) |
|-------------------|-------------------------------|

|            |   |
|------------|---|
| Dimensions | W: 440 mm (17-5/16") H: 78 mm (3-1/16") D: 390 mm (15-11/32") |
|------------|---|

|              |                  |
|--------------|------------------|
| Weight (Net) | 5.1 kg (11.2 lb) |
|--------------|------------------|

Kenwood follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.

Kenwood poursuit une politique de progrès constants en ce qui concerne le développement. Pour cette raison, les spécifications sont sujettes à modifications sans préavis.

Kenwood strebt ständige Verbesserungen in der Entwicklung an. Daher bleiben Änderungen der technischen Daten jederzeit vorbehalten.

|           |  |
|-----------|--|
| Q1        | 2SD330                                 |
| Q2~4, 6~9 | 2SC828A or 2SC945(A) or 2SC1685(Q,R,S) |
| Q5        | 2SC2274K or 2SC2003                    |
| D1, 4     | IN60                                   |
| D2        | IS2076 or IS1555 or WG713              |
| D3        | IN60                                   |
| IC1       | AN6821                                 |
| IC2       | SN74LS90N                              |
| IC3       | LC7257                                 |

|           |  |
|-----------|--|
| Q1        | 2SD330                                 |
| Q2~4, 6~9 | 2SC828A or 2SC945(A) or 2SC1685(Q,R,S) |
| Q5        | 2SC2274K or 2SC2003                    |
| D1, 4     | IN60                                   |
| D2        | IS2076 or IS1555 or WG713              |
| D3        | IN60                                   |
| IC1       | AN6821                                 |
| IC2       | SN74LS90N                              |
| IC3       | LC7257                                 |

|         |   |
|---------|---|
| CF2, 3  | 0 - II<br>L72-0126 - 05<br>L72-0126 - 05<br>L72-0126 - 05<br>L72-0126 - 05<br>L72-0126 - 05 |
| R90     | 75  |
| R164    | 10K   |
| R163    | 47K   |
| R162    | NO  |
| CB9     | 3P  |
| C67, 68 | NO  |
| C67, 69 | 100P  |
| C61, 62 | 750P  |
| C60     | 270P  |
| C100    | .01   |
| C101    | .01   |
| J1      | YES   |
| R165    | 560   |

|     |     |
|-----|-----|
| IC1 | 027 |
|-----|-----|

|     |     |
|-----|-----|
| IC2 | 028 |
|-----|-----|

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## PARTS LIST

## INSTRUCTION FOR PARTS LIST

| Ref. No. | Parts No.                          | Description                     | Re-marks |
|----------|------------------------------------|---------------------------------|----------|
| 参照番号     | 部品番号                               | 部品名／規格                          | 備考       |
| ①        | 18 1A                              | A01-0608-12 METALLIC CABINET    | •        |
| 19 2A    | A2C-1979-11 FRONT PANEL ASSY       | • K                             |          |
| 19 2A    | A2C-1979-11 FRONT PANEL ASSY       | • M                             |          |
| 19 2A    | A2C-1979-11 FRONT PANEL ASSY       | • S                             |          |
| 19 2A    | A2C-1979-11 FRONT PANEL ASSY       | • X                             |          |
| ②        | 18 1A                              | A01-0608-12 METALLIC CABINET    | •        |
| 19 2A    | A2C-1979-11 FRONT PANEL ASSY       | • K                             |          |
| 19 2A    | A2C-1979-11 FRONT PANEL ASSY       | • M                             |          |
| 19 2A    | A2C-1979-11 FRONT PANEL ASSY       | • S                             |          |
| ③        | 18 1A                              | A01-0608-12 METALLIC CABINET    | •        |
| 19 2A    | A2C-1979-11 FRONT PANEL ASSY       | • K                             |          |
| 19 2A    | A2C-1979-11 FRONT PANEL ASSY       | • M                             |          |
| 19 2A    | A2C-1979-11 FRONT PANEL ASSY       | • S                             |          |
| ④        | 18 1A                              | A01-0608-12 METALLIC CABINET    | •        |
| 19 2A    | A2C-1979-11 FRONT PANEL ASSY       | • K                             |          |
| 19 2A    | A2C-1979-11 FRONT PANEL ASSY       | • M                             |          |
| 19 2A    | A2C-1979-11 FRONT PANEL ASSY       | • S                             |          |
| ⑤        | R221                               | R43-1330-15 FL-PROOF RD330 J 2H | •        |
| R222     | R43-1368-15 FL-PROOF RD680 J 2H    | •                               |          |
| VR1 12   | R12-3301-05 TRIMMING POT, 20K(B)   | •                               |          |
| VR3 4    | R19-4305-05 POTENTIOMETER (OUTPUT) | •                               |          |
| VR5 6    | R12-2302-05 TRIMMING POT, 5K(B)    | •                               |          |
| ⑥        | R221                               | R43-1330-15 FL-PROOF RD330 J 2H | •        |
| R222     | R43-1368-15 FL-PROOF RD680 J 2H    | •                               |          |
| VR1 12   | R12-3301-05 TRIMMING POT, 20K(B)   | •                               |          |
| VR3 4    | R19-4305-05 POTENTIOMETER (OUTPUT) | •                               |          |
| VR5 6    | R12-2302-05 TRIMMING POT, 5K(B)    | •                               |          |

① Exploded view drawing No.

② Position in exploded view.

③ Symbol of new parts.

④ Area to which parts are shipped. Example: A20-1979-11 is the part No. of FRONT PANEL ASSY for the "K" type products (for U.S.A.). When this column is blank, it means that the same type of parts (same parts No.) are used for the products shipped to all areas.

⑤ Reference No. in schematic diagram.

⑥ Abbreviation of "Flame-proof carbon film resistor"

All capacitors and resistors are listed using abbreviations.

Abbreviations.

\* Abbreviations of capacitors (Parts' No. with initial letter "C").

ELECTRO Electrolytic capacitor

LL-ELEC Low leak electrolytic capacitor

NP-ELEC Non-pole electrolytic capacitor

MICA Mica capacitor

POLYSTY Polystyrene capacitor

MYLAR Mylar capacitor

CERAMIC Ceramic capacitor

TANTAL Tantalum capacitor

MF Metallized film capacitor

MP Metallized paper capacitor

OIL Oil capacitor

The unit "UF" is used in lieu of "μF".

\* Abbreviations of resistors (Parts No. with initial letters "R").

RC Carbon composition resistor

RD Carbon film resistor

FL-PROOF RD Flame-proof carbon film resistor

RW Wire wound power resistor

FL-PROOF RS Flame-proof metal oxide film resistor

RN Metal film resistor

FUSE-RESIST Resistor with fuse function

2B Rated wattage 1/8W

2E Rated wattage 1/4W

2H Rated wattage 1/2W

3A Rated wattage 1W

3D Rated wattage 2W

3F Rated wattage 3W

3G Rated wattage 4W

3H Rated wattage 5W

All resistor values are indicated with the unit (Ω) omitted.

\* Abbreviations common to capacitors and resistors.

C ±0.25pF (Used for capacitors only)

D ±0.5pF (Used for capacitors only)

F ±1%

G ±2%

J ±5%

K ±10%

M ±20%

Z +80% -20% (Used for capacitors only)

P +100% -0% (Used for capacitors only)

Resistors RD (carbon composition resistors) are not listed in the parts list. For values, refer to the schematic diagram.

CODEs in X05-190

CODEs in X13-297

K : X05-1900-11

K : X13-2970-10

U : X05-1900-81

E : X13-2972-71

M : X05-1900-21

E : X05-1902-71

X : X05-1900-71

| Ref. No.      | Parts No.   | Description              | Re-marks |
|---------------|-------------|--------------------------|----------|
| 参照番号          | 部品番号        | 部品名／規格                   | 備考       |
| KT-900 (UNIT) |             |                          |          |
| 1 1B          | A01-0391-02 | METALLIC CABINET         | *        |
| 2 3B          | —           | MAIN CHASSIS             | • K      |
| 3 2B          | —           | REAR PANEL               | • M      |
| 4 2A          | —           | DIAL BACK BOARD (A)      | • S      |
| 5 3A          | A30-0185-03 | DIAL BACK BOARD (B) ASSY | *        |
| 6 3B          | —           | BOTTOM PLATE             | K        |
| 7 3A          | E01-0177-02 | PANEL ESCUTCHEON ASSY    | *        |
| 8 3A          | —           | PANEL ESCUTCHEON         | M        |
| 9 3A          | B07-0345-04 | ESCUCHIEON (TUNING)      | *        |
| —             | B41-0229-04 | CAUTION LABEL            | P        |
| —             | B42-0473-24 | LABEL                    | M        |
| —             | B42-0473-24 | LABEL                    | UE       |
| —             | B42-0473-24 | LABEL                    | X        |
| —             | B42-0473-24 | LABEL                    | E        |
| —             | B46-0055-30 | WARRANTY CARD            | P        |
| —             | B46-0060-00 | WARRANTY CARD            | T        |
| —             | B46-0061-30 | WARRANTY CARD            | K        |
| —             | B46-0062-30 | WARRANTY CARD            | UE       |
| —             | B46-0063-13 | WARRANTY CARD MILITARY   | UH       |
| —             | B46-0063-13 | WARRANTY CARD MILITARY   | UE       |
| —             | B46-0064-20 | WARRANTY CARD            | X        |
| —             | B50-3234-00 | INSTRUCTION MANUAL       | *K       |
| —             | B50-3234-00 | INSTRUCTION MANUAL       | PU       |
| —             | B50-3234-00 | INSTRUCTION MANUAL       | MH       |
| —             | B50-3234-00 | INSTRUCTION MANUAL       | UE       |
| —             | B50-3234-00 | INSTRUCTION MANUAL       | X        |
| —             | B50-3234-00 | INSTRUCTION MANUAL       | P        |
| —             | B50-3235-00 | INSTRUCTION MANUAL       | MH       |
| —             | B50-3235-00 | INSTRUCTION MANUAL       | UE       |
| —             | B50-3236-00 | INSTRUCTION MANUAL       | *M       |
| —             | B50-3237-00 | INSTRUCTION MANUAL       | *T       |
| —             | B50-3238-00 | INSTRUCTION MANUAL       | *E       |
| —             | B59-0018-00 | INSTRUCTION PRINT        | Uh       |
| —             | B59-0018-00 | INSTRUCTION PRINT        | UE       |
| 10 3A         | B10-0282-04 | FRONT GLASS              | MH       |
| 10 3A         | B10-0282-04 | FRONT GLASS              | UE       |
| 10 3A         | B10-0282-04 | FRONT GLASS              | XE       |
| 10 3A         | B10-0283-04 | FRONT GLASS              | *T       |
| 11 3A         | B20-0480-04 | DIAL CALIBRATION         | *        |
| 12 2A         | B21-0045-04 | DIAL POINTER             | *        |
| 13 3A         | B30-0259-05 | LAMP X2 8V,15A           | *        |
| 14 2A         | B30-0279-05 | LAMP 8V,05A              | *        |
| 15 2B         | B38-0022-05 | DISPLAY ASSY             | *        |
| C1 1A         | C91-0023-05 | CERAMIC 0.01UF AC250V    | UM       |
| C1 1A         | C91-0023-05 | CERAMIC 0.01UF AC250V    | HX       |
| C1 1A         | C91-0023-05 | CERAMIC 0.01UF AC250V    | UE       |
| C1 1A         | C91-0079-05 | CERAMIC 0.01UF AC125V    | KP       |
| C1 1A         | C91-0079-05 | CERAMIC 0.01UF AC125V    | TE       |
| 16A 2B        | E04-0004-05 | RECEPTACLE               | E        |
| 16B 2B        | E13-0116-05 | PHONO JACK               | KP       |
| 16B 2B        | E13-0116-05 | PHONO JACK               | UH       |
| 16B 2B        | E13-0116-05 | PHONO JACK               | UE       |
| 17 2B,3A      | D15-0174-05 | PULLEY ASSY              | *        |
| 18 1B         | D15-0176-03 | PULLEY                   | *        |
| 19 3B         | D20-0157-03 | DIAL SHAFT ASSY          | *        |
| —             | E30-0505-05 | AUDIO CORD               | *        |
| 20 1B         | E21-0012-05 | TERMINAL                 | KP       |
| 22 2B         | E30-0181-05 | POWER CORD               |          |

## PARTS LIST

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| Ref. No.        | Parts No.   | Description   | Re-marks |
|-----------------|-------------|---------------|----------|
| 参照番号            | 部品番号        | 部品名／規格        | 備考       |
| TUNER (X05-190) |             |               |          |
| 22 2B           | E30-0459-05 | POWER CORD    | E        |
| 22 2B           | E30-0545-05 | POWER CORD    | UN       |
| 22 2B           | E30-0545-05 | POWER CORD    | UE       |
| 22 2B           | E30-0587-05 | POWER CORD    | H        |
| 22 2B           | E30-0649-05 | POWER CORD    | T        |
| 23 2A           | —           | SLIDER        | X        |
| 24 1B           | G01-0368-04 | COILED SPRING |          |
| —               | H01-3213-04 | CARTON BOX    | *T       |
| —               | H01-3214-04 | CARTON BOX    | *U       |
| —               | H01-3214-04 | CARTON BOX    | MH       |
| —               | H01-3214-04 | CARTON BOX    | UE       |
| —               | H01-3216-04 | CARTON BOX    | X        |
| —               |             |               |          |

## PARTS LIST

| Ref. No. | Parts No.   | Description         | Re-marks | Ref. No.              | Parts No.   | Description         | Re-marks |
|----------|-------------|---------------------|----------|-----------------------|-------------|---------------------|----------|
| 参照番号     | 部品番号        | 部品名 / 規格            | 備考       | 参照番号                  | 部品番号        | 部品名 / 規格            | 備考       |
| 22 2B    | E30-0459-05 | POWER CORD          | E        | 38 2B                 | T90-0104-05 | ANTENNA AM LOOP     |          |
| 22 2B    | E30-0545-05 | POWER CORD          | UM       | 39 1A                 | X05-1900-11 | TUNER PCB ASSY      | *K       |
| 22 2B    | E30-0545-05 | POWER CORD          | UE       | 39 1A                 | X05-1900-11 | TUNER PCB ASSY      | P        |
| 22 2B    | E30-0545-05 | POWER CORD          | H        | 39 1A                 | X05-1900-21 | TUNER PCB ASSY      | *M       |
| 22 2B    | E30-0587-05 | POWER CORD          | T        | 39 1A                 | X05-1900-71 | TUNER PCB ASSY      | *X       |
| 22 2B    | E30-0649-05 | POWER CORD          | X        | 39 1A                 | X05-1900-81 | TUNER PCB ASSY      | *U       |
| 23 2A    | -           | SLIDER              |          | 39 1A                 | X05-1900-81 | TUNER PCB ASSY      | H        |
| 24 1B    | G01-0368-04 | COILED SPRING       |          | 39 1A                 | X05-1900-81 | TUNER PCB ASSY      | UE       |
| -        | H01-3213-04 | CARTON BOX          | *T       | 39 1A                 | X05-1902-71 | TUNER PCB ASSY      | T        |
| -        | H01-3214-04 | CARTON BOX          | *U       | 39 1A                 | X05-1902-71 | TUNER PCB ASSY      | E        |
| -        | H01-3214-04 | CARTON BOX          | MH       | 40 2A                 | X13-2972-10 | SUB PCB ASSY        | KP       |
| -        | H01-3214-04 | CARTON BOX          | UE       | 40 2A                 | X13-2972-71 | SUB PCB ASSY        | UM       |
| -        | H01-3214-04 | CARTON BOX          | X        | 40 2A                 | X13-2972-71 | SUB PCB ASSY        | HX       |
| -        | H01-3214-04 | CARTON BOX          | UE       | 40 2A                 | X13-2972-71 | SUB PCB ASSY        | UE       |
| -        | H01-3214-04 | CARTON BOX          | XT       | 40 2A                 | X13-2972-71 | SUB PCB ASSY        | XT       |
| -        | H01-3216-04 | CARTON BOX          | *E       | TUNER (X05-190 *-* *) |             |                     |          |
| -        | H01-3258-04 | CARTON BOX          | *P       | D18 -22               | B30-0255-05 | LAMP (LED)          |          |
| -        | H01-3258-04 | CARTON BOX          | *K       | C1 -7                 | C91-0083-05 | CERAMIC 0.01UF N    |          |
| -        | H10-1559-03 | POLYSTYRENE FIXTURE | *        | C8 -                  | C52-1710-26 | CERAMIC 0.001UF K   |          |
| -        | H20-0453-04 | COVER               | *        | C9 -12                | C91-0083-05 | CERAMIC 0.01UF N    |          |
| -        | H25-0078-04 | BAG                 |          | C13 -                 | C91-0085-05 | CERAMIC 0.022UF N   |          |
| 26 2A,3B | J02-0111-05 | FOOT X4             | *        | C14 -                 | C25-1210-67 | ELECTRO 10UF 16WV   |          |
| 27 2B    | J19-0564-05 | HOLDER              |          | C15 ,16               | C25-1710-57 | LL-ELEC 1UF 50WV    |          |
| 28 3B    | -           | HOLDER              |          | C17 -                 | C25-1747-47 | LL-ELEC 0.47UF 50WV |          |
| 29 1A    | J42-0083-05 | MOUNTING HARDWARE   |          | C18 -                 | C46-1733-35 | MYLAR 0.033UF J     |          |
| 30 2B    | J42-0083-05 | BUSHING             | KP       | C19 -21               | C91-0083-05 | CERAMIC 0.01UF N    |          |
| 30 2B    | J42-0083-05 | BUSHING             | UM       | C22 -                 | C25-1210-67 | ELECTRO 10UF 16WV   |          |
| 30 2B    | J42-0083-05 | BUSHING             | H        | C23 -                 | C91-0085-05 | CERAMIC 0.022UF N   |          |
| 30 2B    | J42-0083-05 | BUSHING             | UE       | C24 -                 | C24-1447-57 | ELECTRO 4.7UF 25WV  |          |
| 30 2B    | J42-0083-05 | BUSHING             | TE       | C25 -                 | C46-1733-35 | MYLAR 0.033UF J     |          |
| 30 2B    | J42-0085-05 | BUSHING             | X        | C26 ,27               | C25-1710-57 | LL-ELEC 1UF 50WV    |          |
| 31 3A    | -           | RAIL                |          | C28 -                 | C25-1210-67 | ELECTRO 10UF 16WV   |          |
| 32 3A    | K21-0390-04 | KNOB (TUNING)       | *        | C29 -                 | C24-1222-67 | ELECTRO 22UF 16WV   |          |
| 33 2A    | K29-0379-04 | KNOB (SELECTOR)     | *        | C30 -                 | C91-0083-05 | CERAMIC 0.01UF N    |          |
| 34 1A    | K29-0380-04 | KNOB (POWER)        | *        | C32 -                 | C24-1010-79 | ELECTRO 100UF 10WV  |          |
|          |             |                     |          | C33 -                 | C24-1022-71 | ELECTRO 220UF 10WV  |          |
|          |             |                     |          | C34 -                 | C91-0457-05 | CERAMIC 0.022UF N   |          |
| 35 2A    | L01-2151-05 | POWER TRANSFORMER   | *K       |                       |             |                     |          |
| 35 2A    | L01-2151-05 | POWER TRANSFORMER   | P        | C35 -                 | C58-1710-15 | CERAMIC 100PF J     |          |
| 35 2A    | L01-2152-05 | POWER TRANSFORMER   | *T       | C36 ,38               | C91-0085-05 | CERAMIC 0.022UF N   |          |
| 35 2A    | L01-2154-05 | POWER TRANSFORMER   | *E       | C39 -                 | C25-1210-77 | LL-ELEC 100UF 16WV  |          |
| 35 2A    | L01-2155-05 | POWER TRANSFORMER   | *U       | C40 -                 | C25-1210-67 | ELECTRO 10UF 16WV   |          |
| 35 2A    | L01-2155-05 | POWER TRANSFORMER   | MH       | C41 -                 | C46-1710-25 | MYLAR 0.001UF J     | XE       |
| 35 2A    | L01-2155-05 | POWER TRANSFORMER   | UE       |                       |             |                     |          |
| 35 2A    | L01-2155-05 | POWER TRANSFORMER   | X        |                       |             |                     |          |
| 36 3A    | N14-0128-04 | NUT X2              | *        |                       |             |                     |          |
| S1       | S40-1022-05 | PUSH SWITCH         | UM       | C45 -                 | C25-1210-77 | LL-ELEC 100UF 16WV  |          |
| S1       | S40-1022-05 | PUSH SWITCH         | HX       | C46 -                 | C24-1222-67 | ELECTRO 22UF 16WV   |          |
| S1       | S40-1022-05 | PUSH SWITCH         | UE       | C47 -                 | C46-1782-25 | MYLAR 0.0082UF J    |          |
| S1       | S40-1024-05 | PUSH SWITCH         | KP       | C48 -                 | C26-1210-67 | NP-ELEC 10UF 16WV   |          |
| S1       | S40-1025-05 | PUSH SWITCH         | TE       | C49 -                 | C46-1710-25 | POLYSTY 1000PF J    |          |
| S2       | S31-2053-05 | SLIDE SWITCH        | UM       | C50 -                 | C25-1710-57 | LL-ELEC 1UF 50WV    |          |
| S2       | S31-2053-05 | SLIDE SWITCH        | H        | C51 ,52               | C25-1433-57 | LL-ELEC 3.3UF 25WV  |          |
| S2       | S31-2053-05 | SLIDE SWITCH        | UE       |                       |             |                     |          |
| S2       | S31-2053-05 | SLIDE SWITCH        | XE       |                       |             |                     |          |
| S3       | S31-2007-05 | SLIDE SWITCH        | KP       | C53 -                 | C25-1722-57 | LL-ELEC 2.2UF 50WV  |          |
| S3       | S31-2007-05 | SLIDE SWITCH        | UM       | C54 -                 | C25-1210-77 | LL-ELEC 100UF 16WV  |          |
| S3       | S31-2007-05 | SLIDE SWITCH        | H        | C55 ,56               | C24-1247-61 | ELECTRO 47UF 16WV   |          |
| S3       | S31-2007-05 | SLIDE SWITCH        | UE       | C57 ,58               | C24-1733-57 | ELECTRO 3.3UF 50WV  |          |
| S3       | S31-2007-05 | SLIDE SWITCH        | XE       | C59 ,60               | C46-1710-25 | MYLAR 0.001UF J     | XE       |
| S3       | S31-2007-05 | SLIDE SWITCH        | UM       | C61 ,62               | C46-1727-25 | MYLAR 0.0027UF J    | UM       |
| S3       | S31-2007-05 | SLIDE SWITCH        | H        | C61 ,62               | C48-1775-15 | POLYSTY 750PF J     | K        |
| S3       | S31-2007-05 | SLIDE SWITCH        | UE       | C63 ,64               | C46-1715-25 | MYLAR 0.0015UF J    | KU       |
| -        | T90-0202-05 | ANTENNA FM          |          | C63 ,64               | C46-1715-25 | MYLAR 0.0015UF J    | M        |

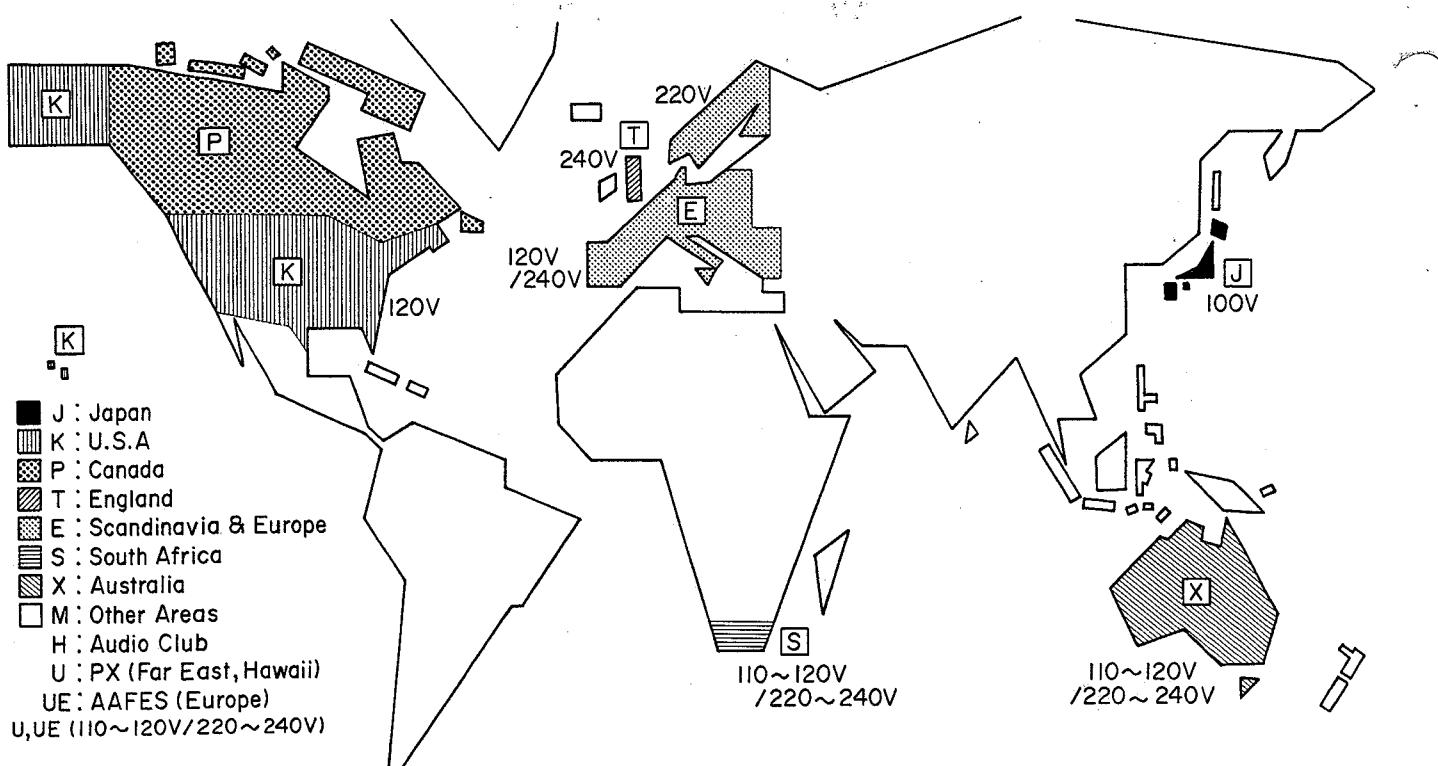
## PARTS LIST

| Ref. No. | Parts No.   | Description     | Re-marks | Ref. No. | Parts No.   | Description    | Re-marks           | Ref. No. | Parts No.   | Description    | Re-marks           |
|----------|-------------|-----------------|----------|----------|-------------|----------------|--------------------|----------|-------------|----------------|--------------------|
| 参照番号     | 部品番号        | 部品名 / 規格        | 備考       | 参照番号     | 部品番号        | 部品名 / 規格       | 備考                 | 参照番号     | 部品番号        | 部品名 / 規格       | 備考                 |
| C65 ,66  | C24-1722-57 | ELECTRO 2.2UF   | 50WV     | C66 ,68  | C91-0083-05 | CERAMIC 0.01UF | N                  | C67 ,68  | R40-8310-67 | RC 10M         | M 2H               |
| C69 -    | C25-1210-67 | ELECTRO 10UF    | 16WV     | C69 -    | C25-1210-67 | CERAMIC 0.01UF | N                  | C69 -    | R43-1210-15 | FL-PROOF RD100 | J 2E               |
| C70 -72  | C25-1210-67 | ELECTRO 10UF    | 16WV     | C70 -72  | C25-1210-67 | CERAMIC 0.01UF | N                  | C70 -72  | R40-8347-05 | RC 47          | J 2H               |
| C73 -    | C25-1210-67 | ELECTRO 10UF    | 16WV     | C73 -    | R40-8318-06 | RC 18M         | J 2H               | C73 -    | R40-8318-06 | RC 18M         | J 2H               |
| C74 -    | C91-0083-05 | CERAMIC 0.01UF  | N        | C74 -    | R47-5422-15 | FL-PROOF RS220 | J 3A               | C74 -    | R47-5422-15 | FL-PROOF RS220 | J 3A               |
| C75 -    | C52-1710-26 | CERAMIC 0.001UF | K        | C75 -    | VR1         | R12-0302-05    | TRIMMING POT,500   | C75 -    | VR2 ,3      | R12-2302-05    | TRIMMING POT,5K    |
| C76 -    | C24-1447-57 | ELECTRO 4.7UF   | 25WV     | C76 -    | VR4         | R12-3301-05    | TRIMMING POT,20K   | C76 -    | VR5         | R12-2302-05    | TRIMMING POT,5K    |
| C77 -    | C25-1733-57 | LL-ELEC 3.3UF   | 50WV     | C77 -    | S1 - 5      | S42-5021-05    | PUSH SWITCH (5KEY) | C77 -    | S1 - 5      | S42-5021-05    | PUSH SWITCH (5KEY) |
| C78 ,79  | C55-1747-38 | CERAMIC 0.047UF | Z        | C78 ,79  | D1 - 7      | V11-0271-05    | 1S2076             | C78 ,79  | D11 - 13    | V11-0271-05    | 1S2076             |
| C80 -    | C25-1747-47 | LL-ELEC 0.47UF  | 50WV     | C80 -    | D14 - 15    | V11-0051-05    | 1N60               | C80 -    | D16         | V11-4161-96    | XZ-070             |
| C81 ,84  | C25-1710-57 | LL-ELEC 1UF</   |          |          |             |                |                    |          |             |                |                    |

## PARTS LIST

| Ref. No.<br>参照番号                  | Parts No.<br>部品番号 | Description<br>部品名／規格 | Re-<br>marks<br>備考 |
|-----------------------------------|-------------------|-----------------------|--------------------|
| C22                               | C91-0181-05       | CERAMIC 0.0015UF N    |                    |
| E23                               | C24-1010-79       | ELECTRO 100UF 10WV    |                    |
| C24                               | C91-0181-05       | CERAMIC 0.0015UF N    |                    |
| C25                               | C91-0085-05       | CERAMIC 0.022UF N     |                    |
| L1 -4                             | L40-2291-11       | INDUCTOR 1MH          |                    |
| X1                                | L77-0574-05       | CRYSTAL RESONATOR     |                    |
| R53 ,54                           | R92-0173-05       | RC 2.2M M 2H          |                    |
| R55                               | R47-5533-05       | FL-PROOF RS33 J 3D    |                    |
| VR1 ,2                            | R12-3302-05       | TRIMMING POT.10K      |                    |
| D1                                | V11-4101-20       | XZ-060                |                    |
| D2                                | V11-0271-05       | 1S2076                |                    |
| D3                                | V11-0051-05       | 1N60                  |                    |
| D4                                | V11-4101-20       | XZ-060                |                    |
| IC1                               | V30-0409-10       | AN6821                |                    |
| IC2                               | V30-1005-26       | SN74LS90N             |                    |
| IC3                               | V30-0517-10       | LC7257                |                    |
| Q1                                | V04-0330-00       | 2SD330                |                    |
| Q2 -4                             | V03-0504-05       | 2SC828A(Q)            |                    |
| Q5                                | V03-2274-20       | 2SC2274K(E,F)         |                    |
| Q6 -9                             | V03-0504-05       | 2SC828A(Q)            |                    |
| <b>FM FRONT END (W02-0054-05)</b> |                   |                       |                    |
| D1                                | V11-3100-20       | 1S2236                |                    |
| IC1                               | V30-0445-10       | SC114                 |                    |
| Q1                                | V09-0150-05       | 3SK85                 |                    |
| Q2                                | V09-0124-20       | 2SK61                 |                    |

## WORLD MAP &amp; AREA CODE



## Note:

Component and circuitry are subject to modification to insure best operation under differing local conditions. This manual is based on, the U.S. (K) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

There is no plan for producing units of S type.

A product of  
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